Armold Improvement Ideas

* Order and solder in 7V regulator chip to provide power for lateral raise actuator
* Create a box (lid?) to case in the electronics (but don't forgo ventilation or easy access!)
* Create an enclosure to house armold
* Add stronger motors (80Kg\*cm) would eliminate the need for gears at each location, making the arm slimmer, reducing the probability of gear misalignment, additional friction from PLA parts rubbing, and mechanical failures.
* Cross-body gear misalignment
* Control panel debug currently only checks the values of the control panel’s potentiometers. Adding feedback control with rotary encoders would allow a user to visualize the actual location of the arm.
* GUI currently does not permanently save some pre-saved motions. If the display wants to have pre-set motions that cannot be deleted, these would need to be made permanent so that any user cannot delete important motions.
* Create a different fishing wire adjustment method for the fingers to prevent fingers from randomly unraveling
* Adding a front panel to the control panel to prevent touch screen from falling out. Adding back casing to the control panel to hold wires/easy access to the battery pack
* Touchscreen has some misalignment issues causing buttons near the bottom of the screen to be difficult to press
* Sometimes the robotic arm ceases function and the system has to go through a “cool off” period. Unsure if this is a wireless communication issue within the code or something caused by overheating components
* Better solution for power and ground rails; no rubber band! Make more professional + accessible